

FIG . 1

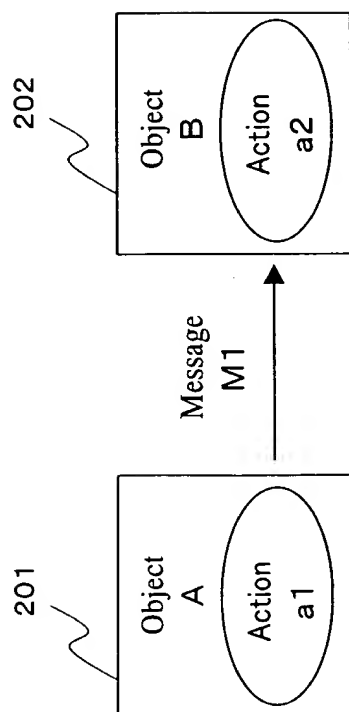


FIG. 2A

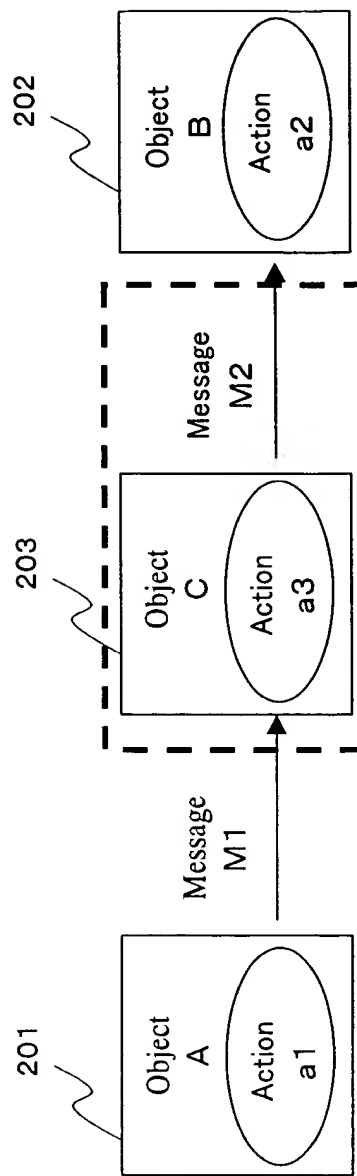


FIG. 2B

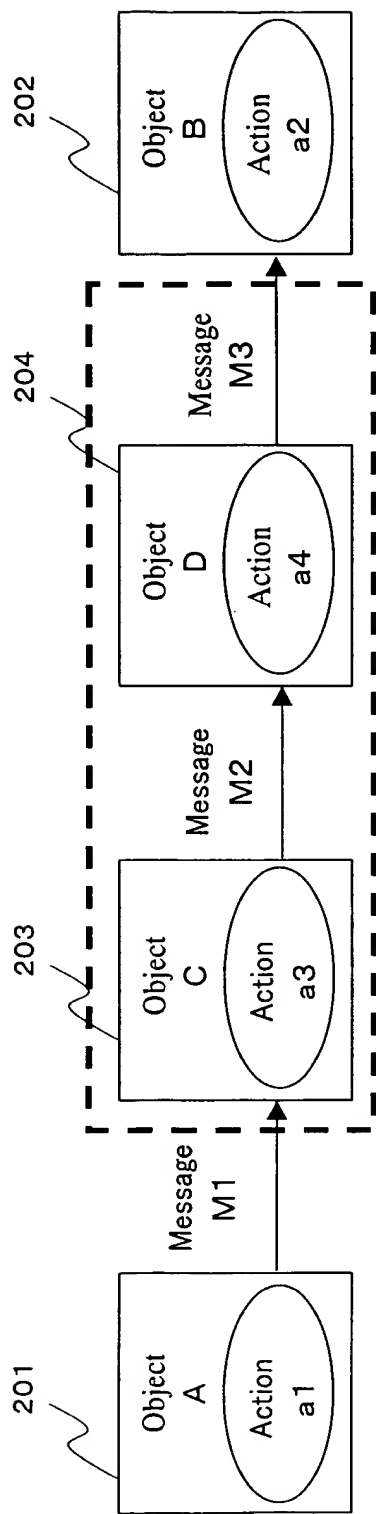


FIG . 3

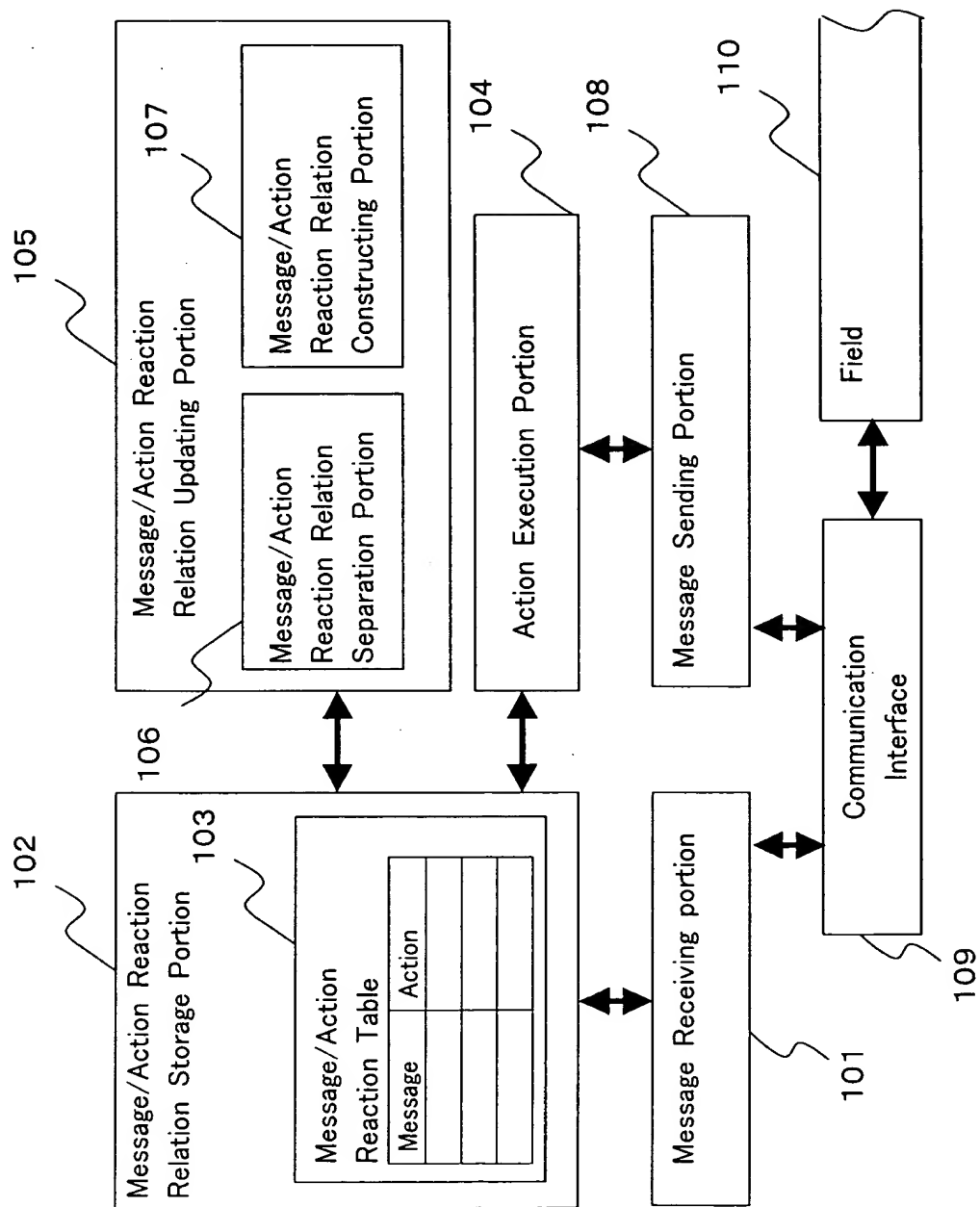


FIG . 4

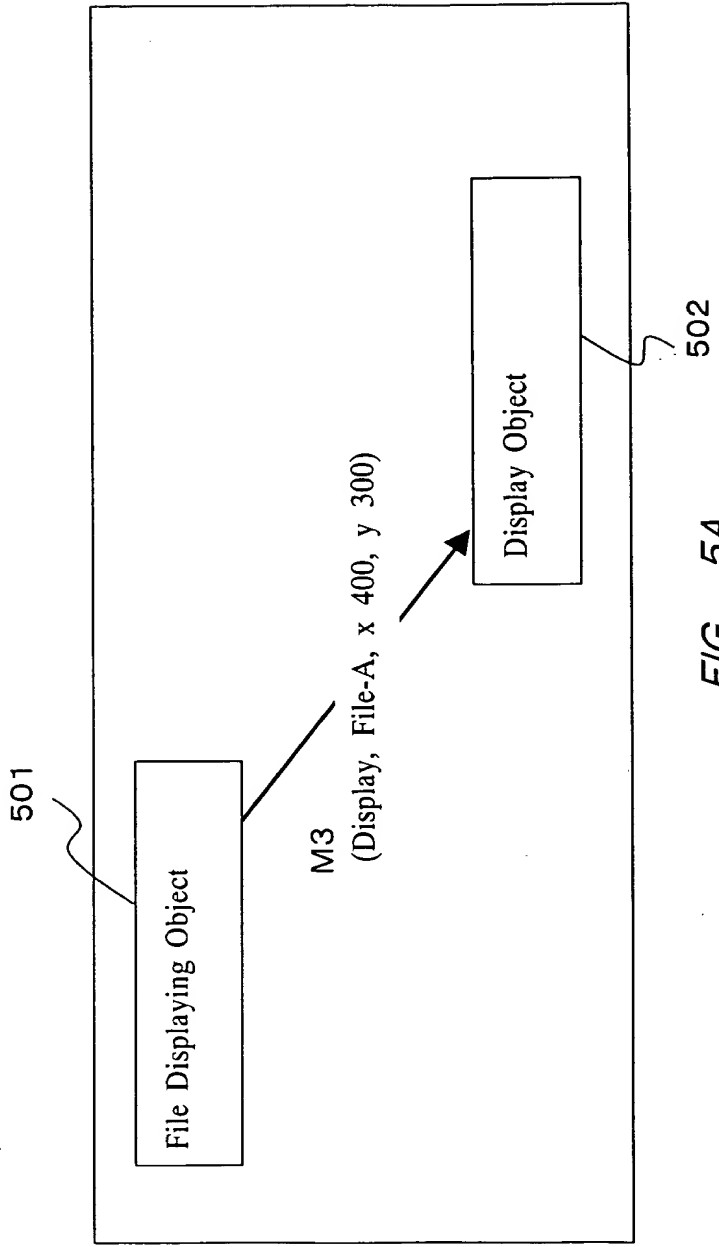


FIG. 5A

| Message |   |   |   | Action |
|---------|---|---|---|--------|
| Display | * | * | * | Draw   |

FIG. 5B

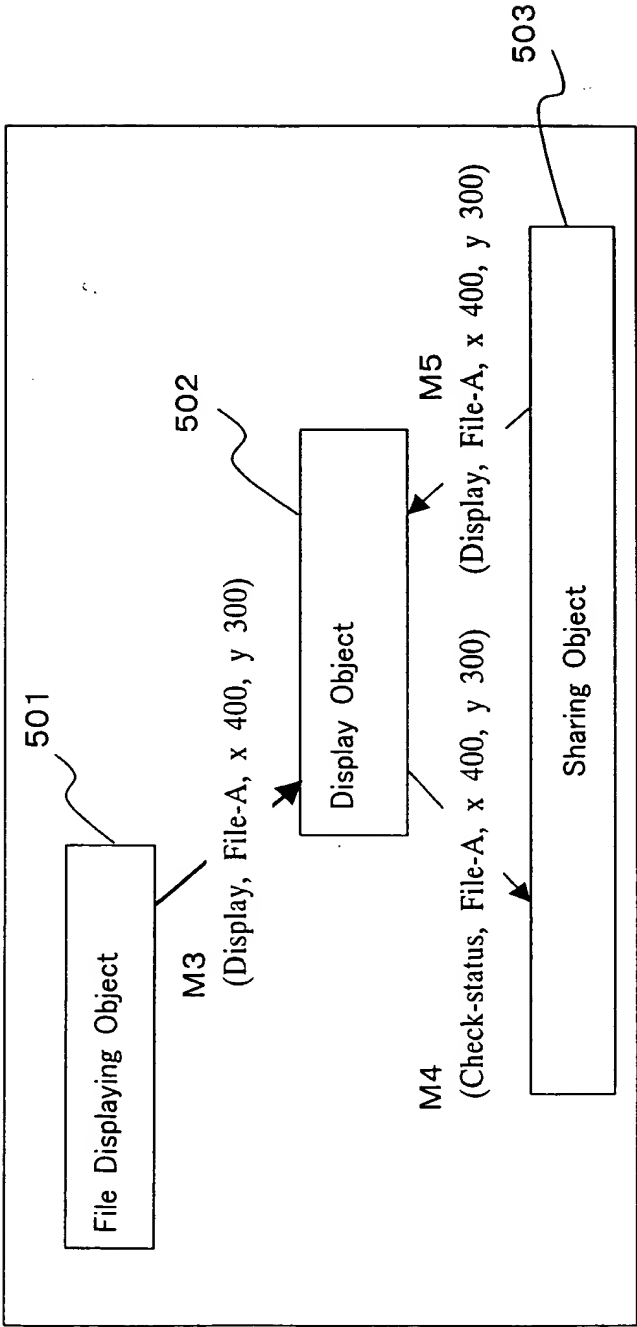


FIG . 6A

| Message          |   |   | Action |
|------------------|---|---|--------|
| Display          | * | * | Status |
| Display-shared   | * | * | Draw   |
| Display-unshared | * | * | Draw   |

FIG . 6B

| Message      |   |   | Action |
|--------------|---|---|--------|
| Check status | * | * | Share  |

FIG . 6C

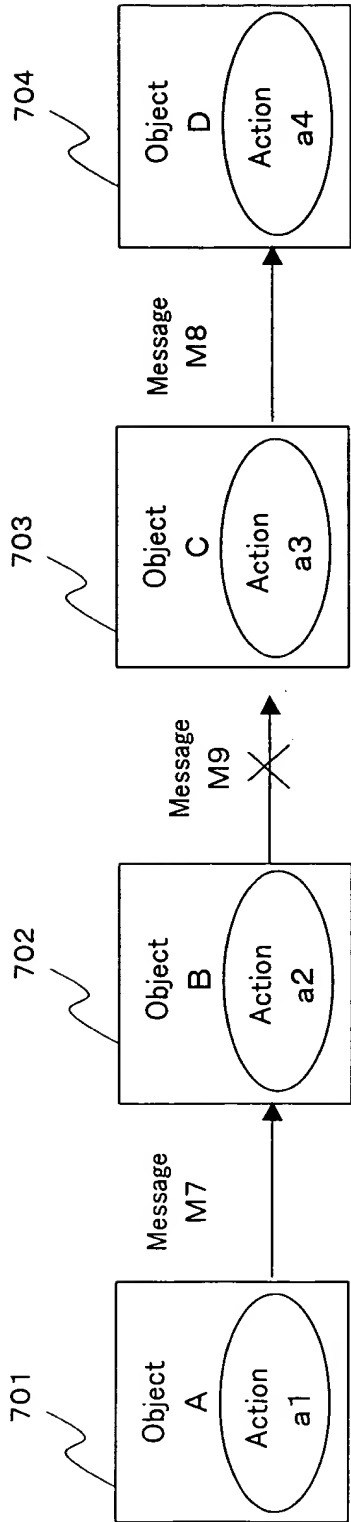


FIG. 7A

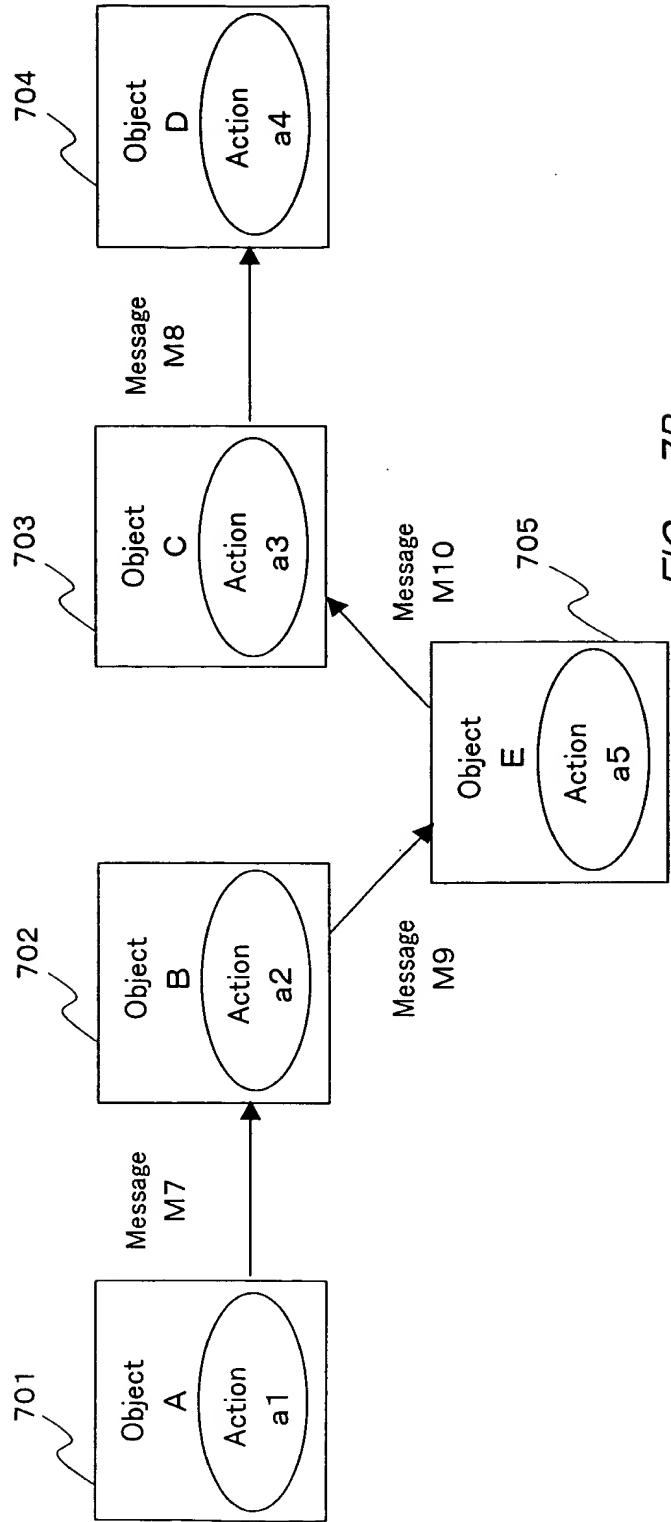


FIG. 7B

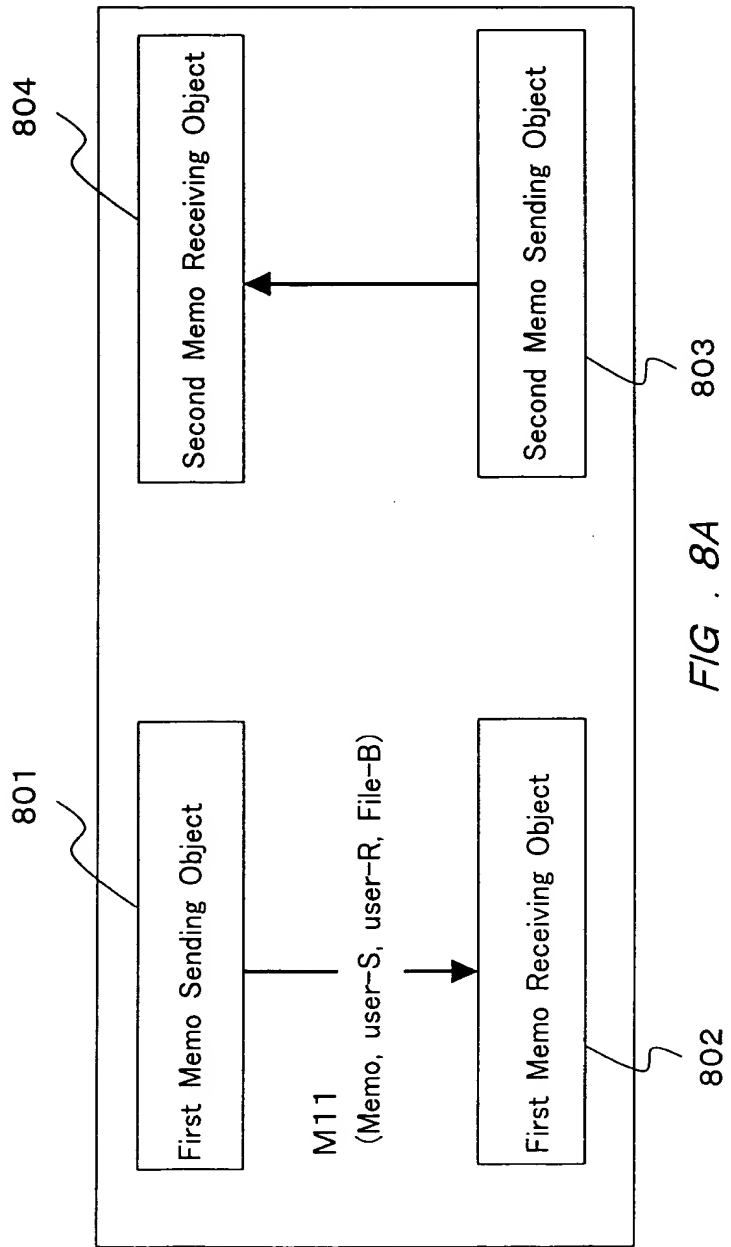


FIG. 8A

| Message |   |   |   | Action    |
|---------|---|---|---|-----------|
| Memo    | * | * | * | Show memo |

FIG. 8B



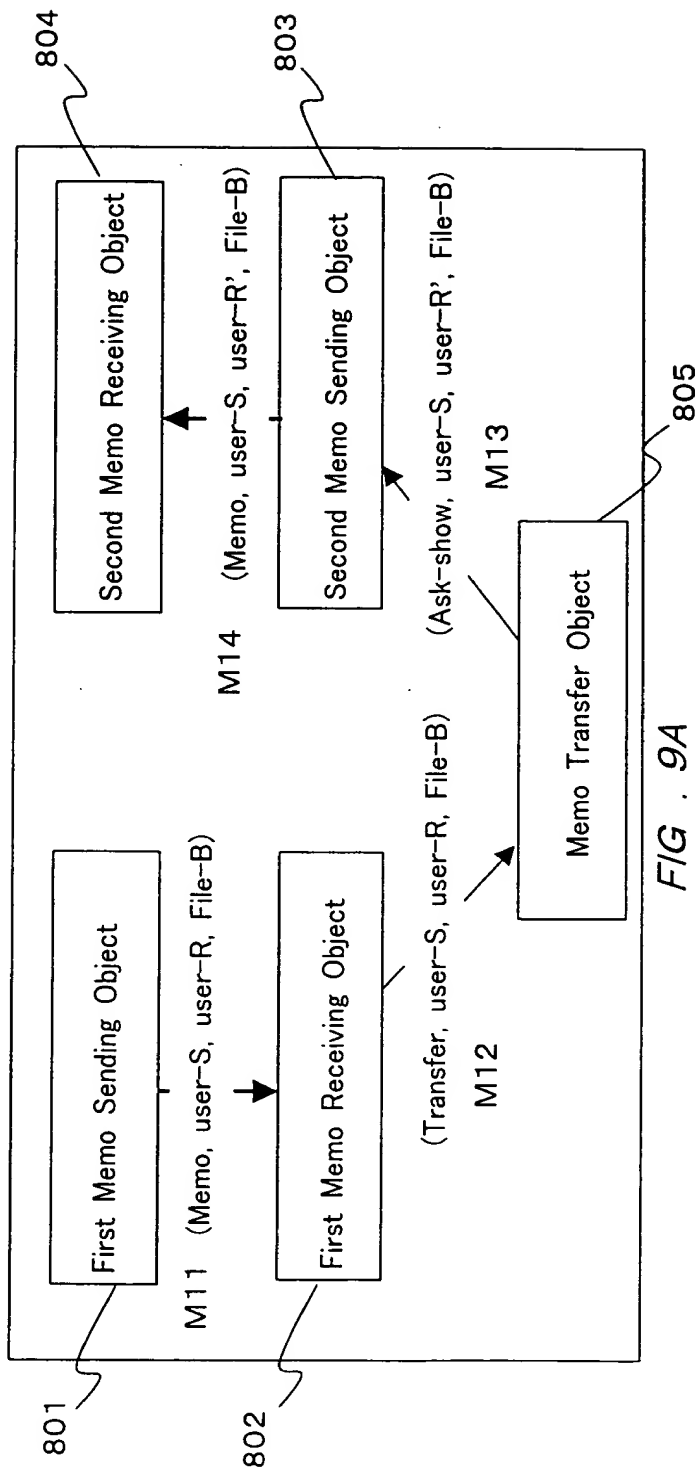


FIG . 9A

| Message |   |   |   | Action       |
|---------|---|---|---|--------------|
| Memo    | * | * | * | Ask transfer |

FIG . 9B

| Message  |   |   |   | Action |
|----------|---|---|---|--------|
| Transfer | * | * | * | Send   |

FIG . 9C

| Message  |   |   |   | Action       |
|----------|---|---|---|--------------|
| Ask-show | * | * | * | Request show |

FIG . 9D

| Message |   |   |   | Action    |
|---------|---|---|---|-----------|
| Memo    | * | * | * | Show memo |

FIG . 9E

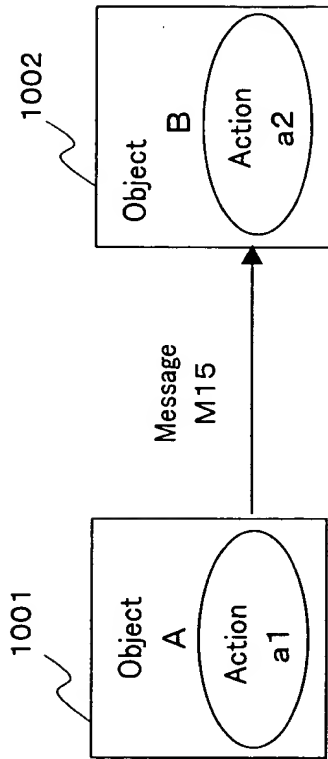


FIG. 10A

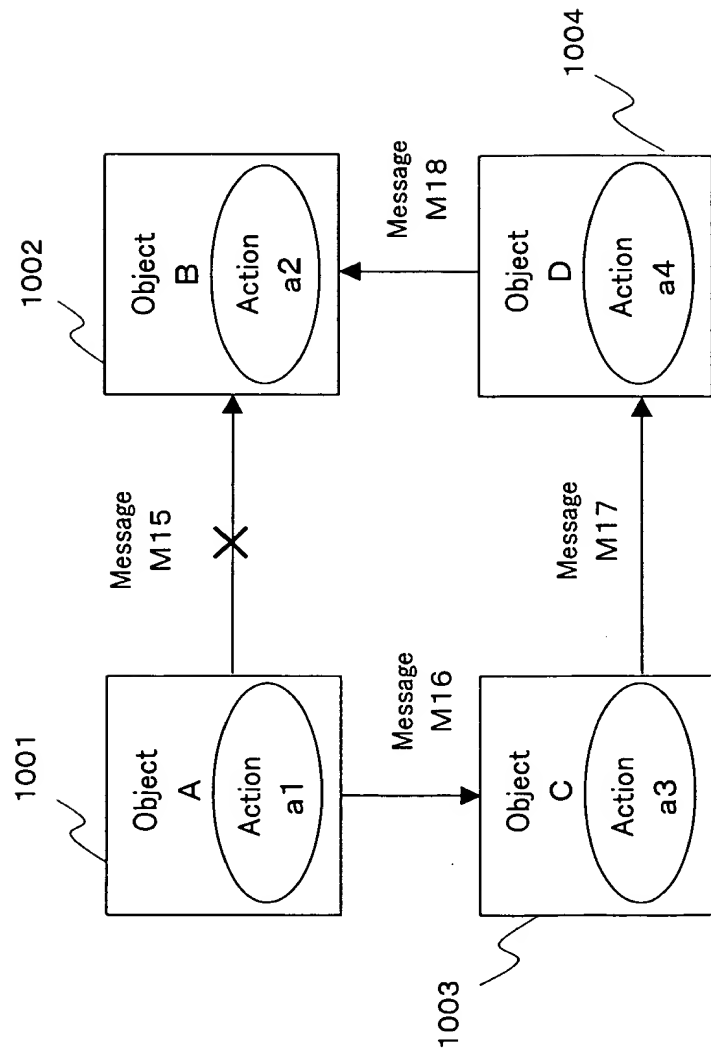
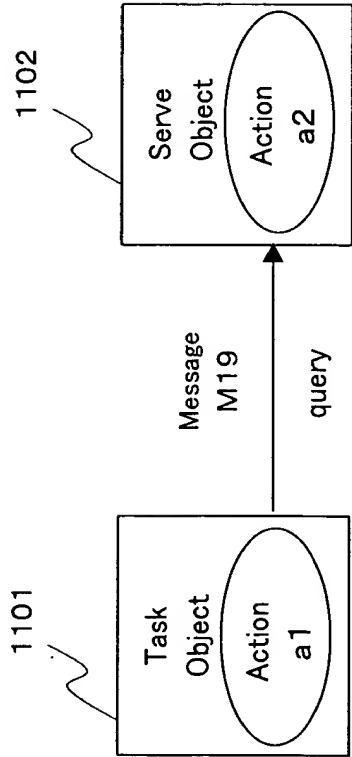
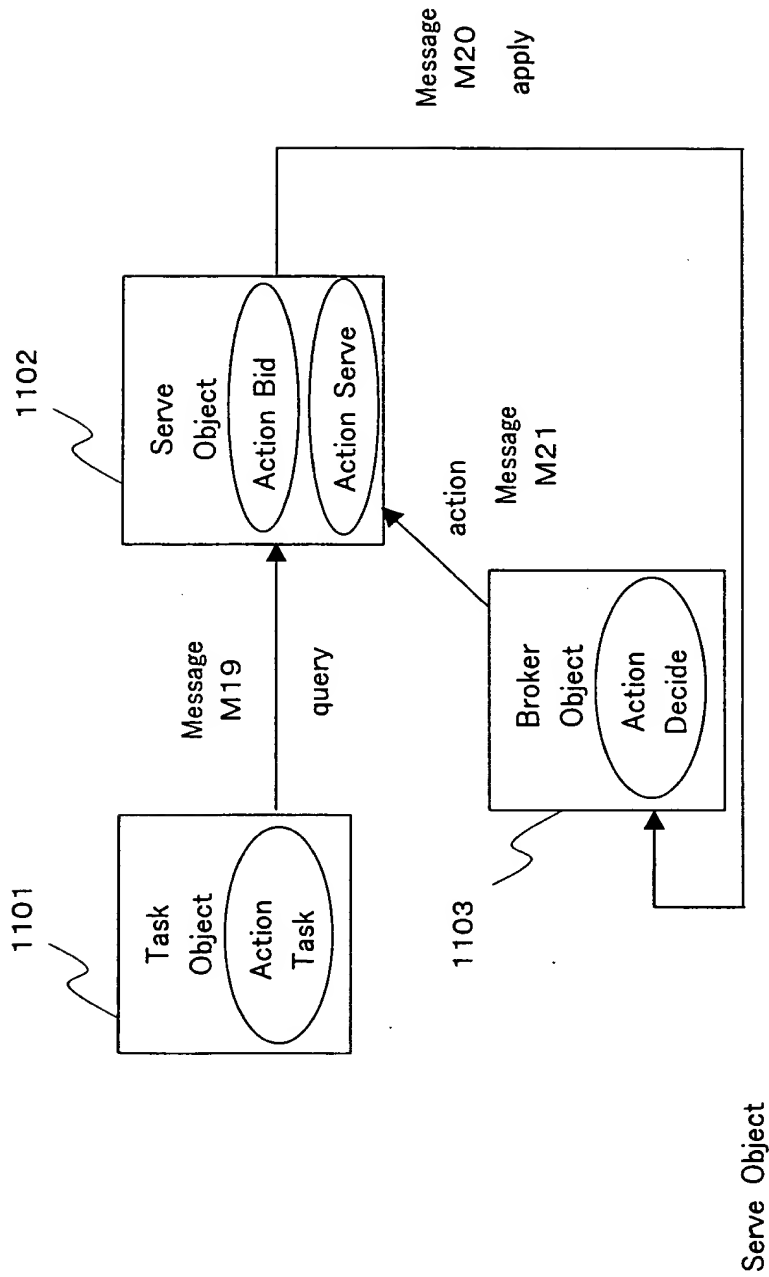


FIG. 10B



| Message |   |   |   | Action |
|---------|---|---|---|--------|
| query   | * | * | * | Serve  |

FIG. 11



| Message |   |   | Action |
|---------|---|---|--------|
| Query   | * | * | Bid    |
| Action  | * | * | Serve  |

Broker Object

| Message |   |   | Action |
|---------|---|---|--------|
| Apply   | * | * | Decide |

FIG . 12

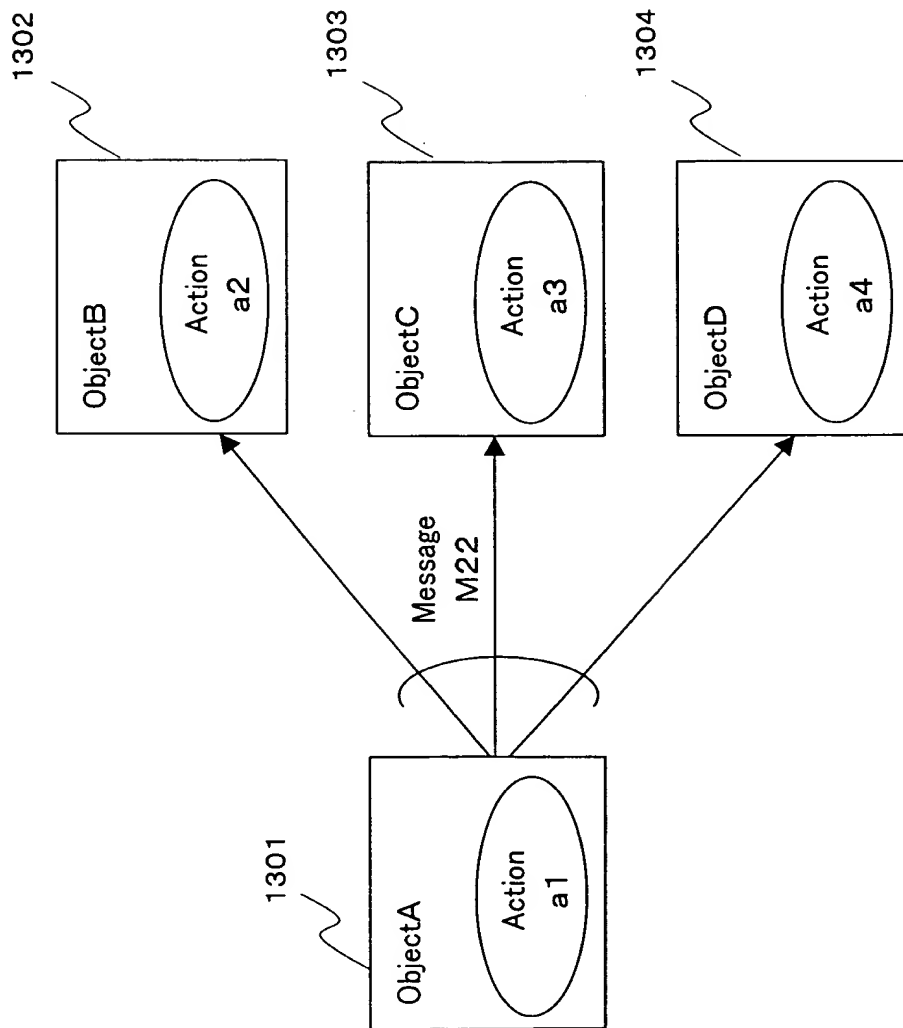


FIG. 13

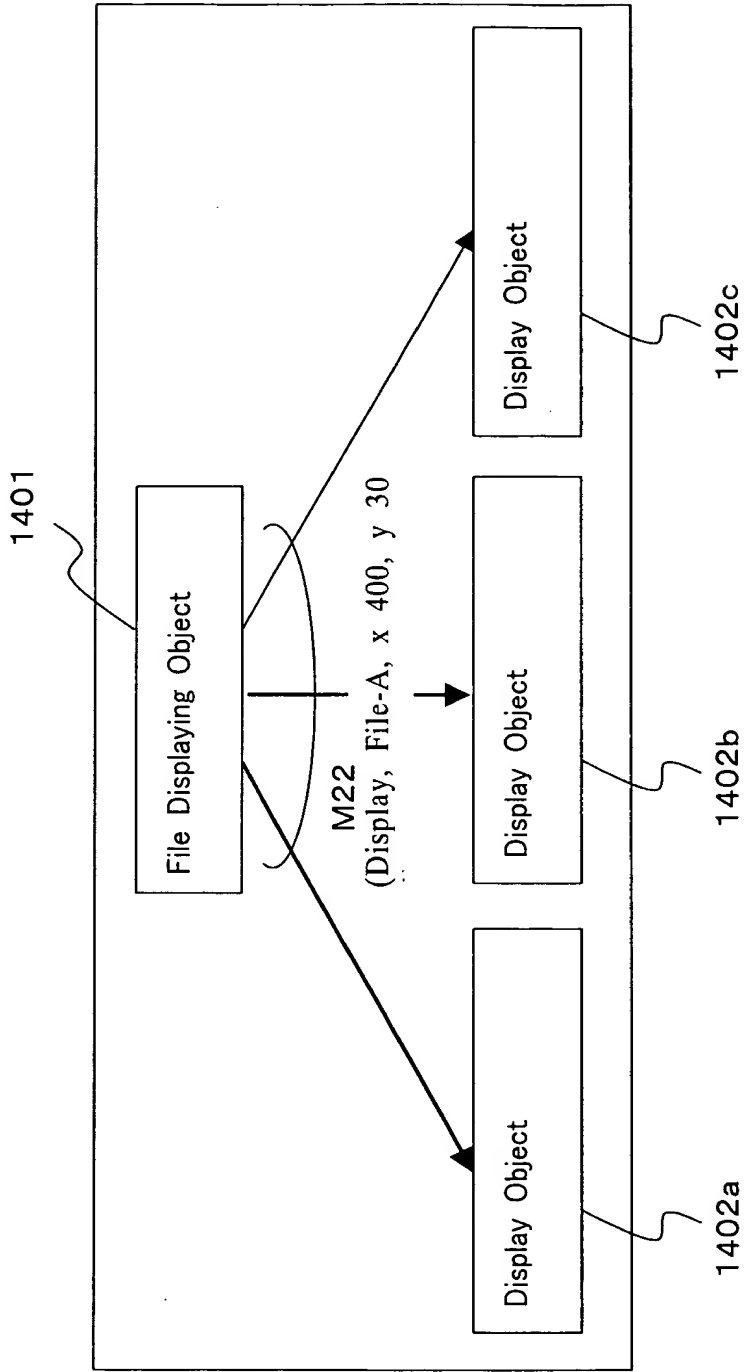


FIG . 14A

Table Kept By 1402a, 1402b and 1402c

| Message |   |   |   | Action |
|---------|---|---|---|--------|
| Display | * | * | * | Draw   |

FIG . 14B

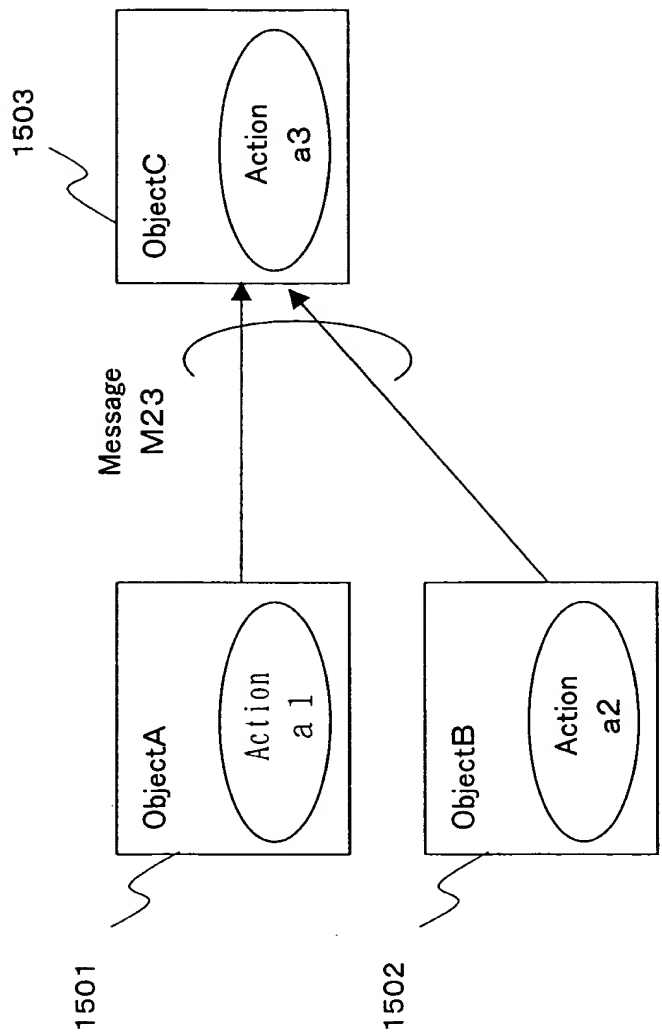


FIG. 15

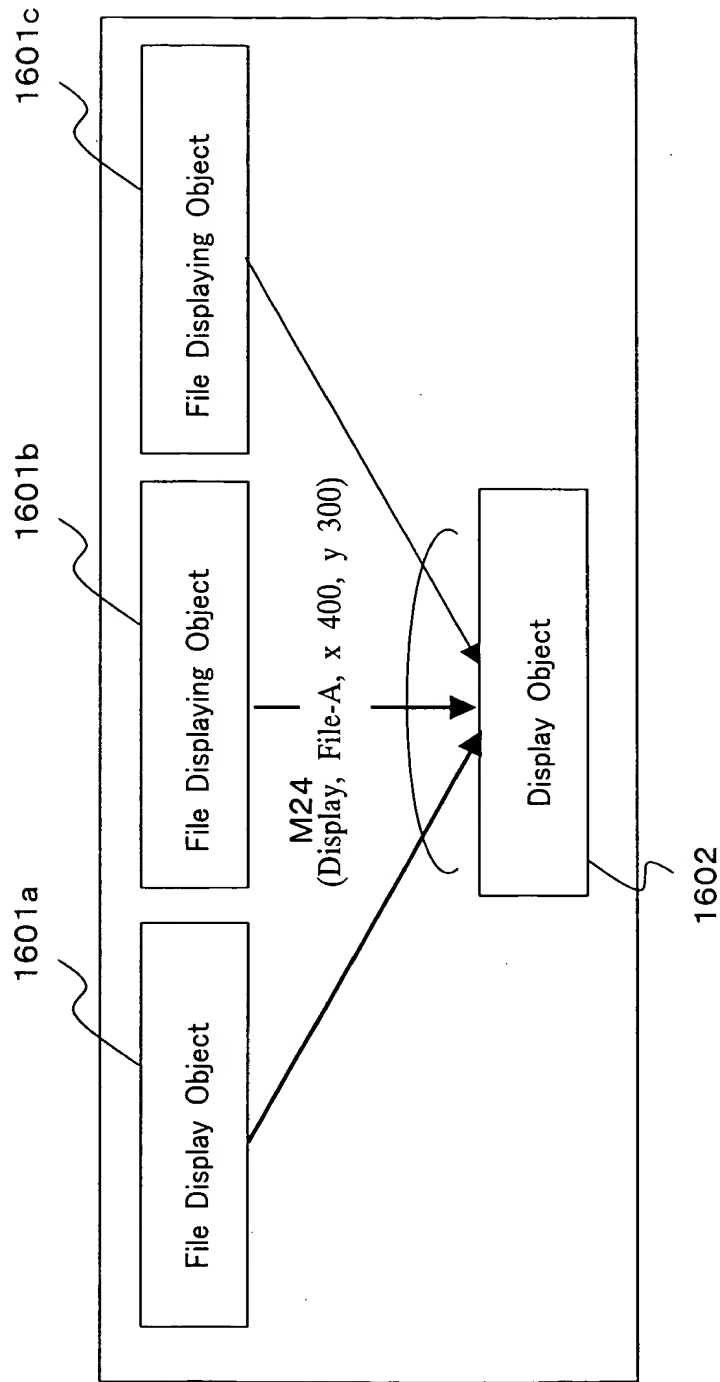


FIG. 16A

Task Kept By 1602

| Message |   |   |   | Action |
|---------|---|---|---|--------|
| Display | * | * | * | Draw   |

FIG. 16B



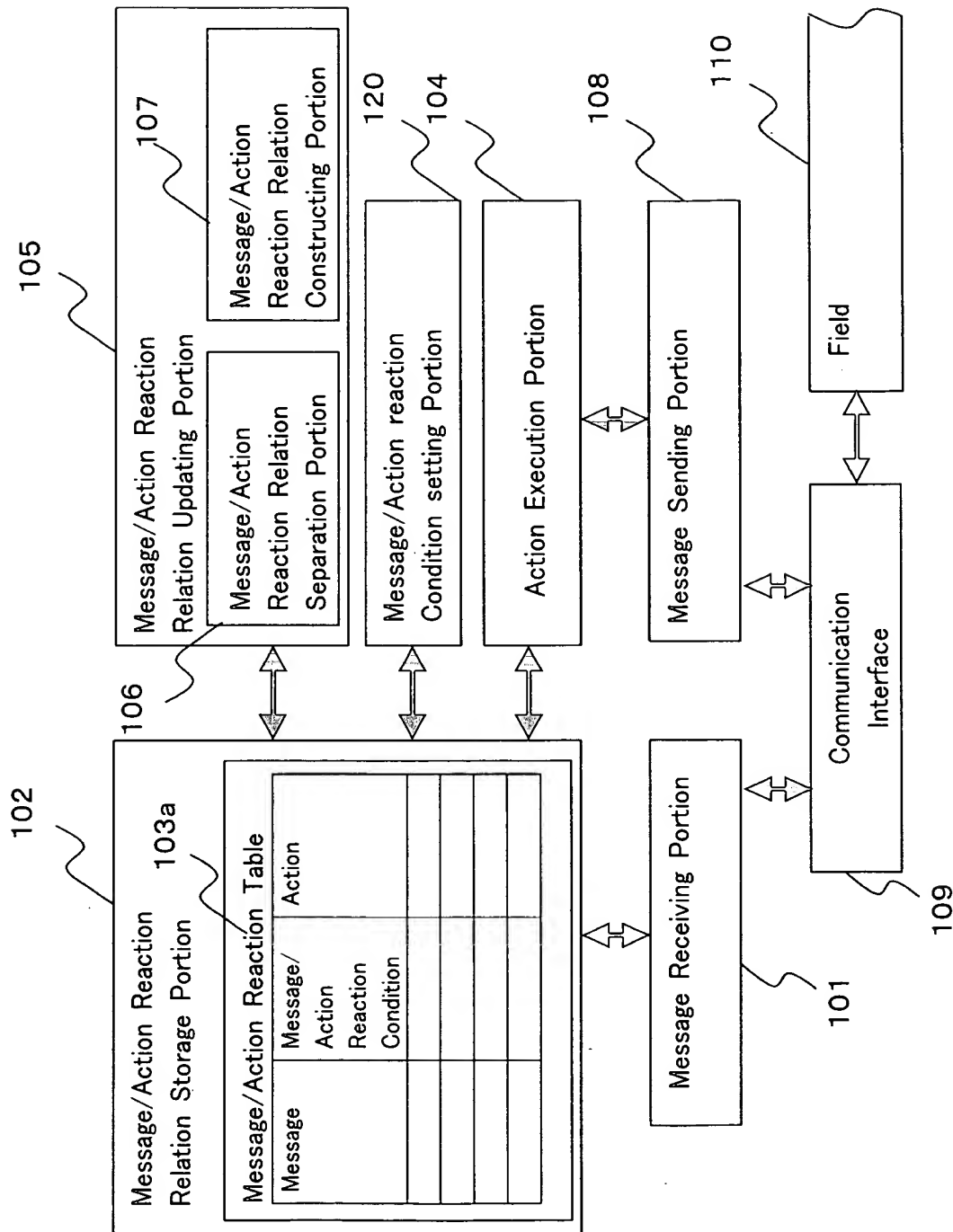


FIG. 17

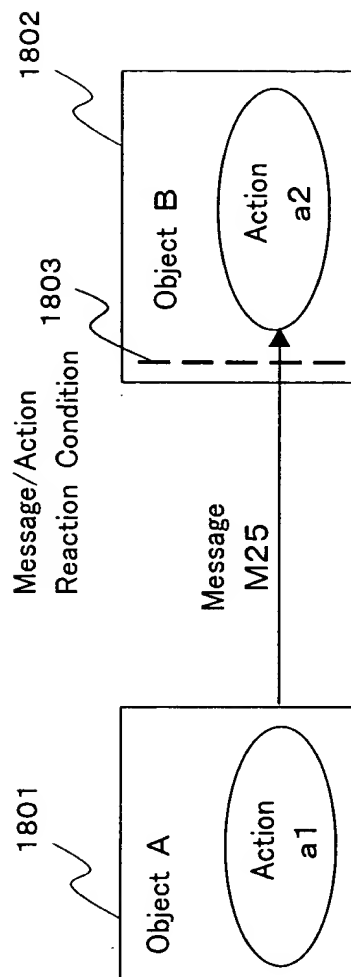


FIG. 18

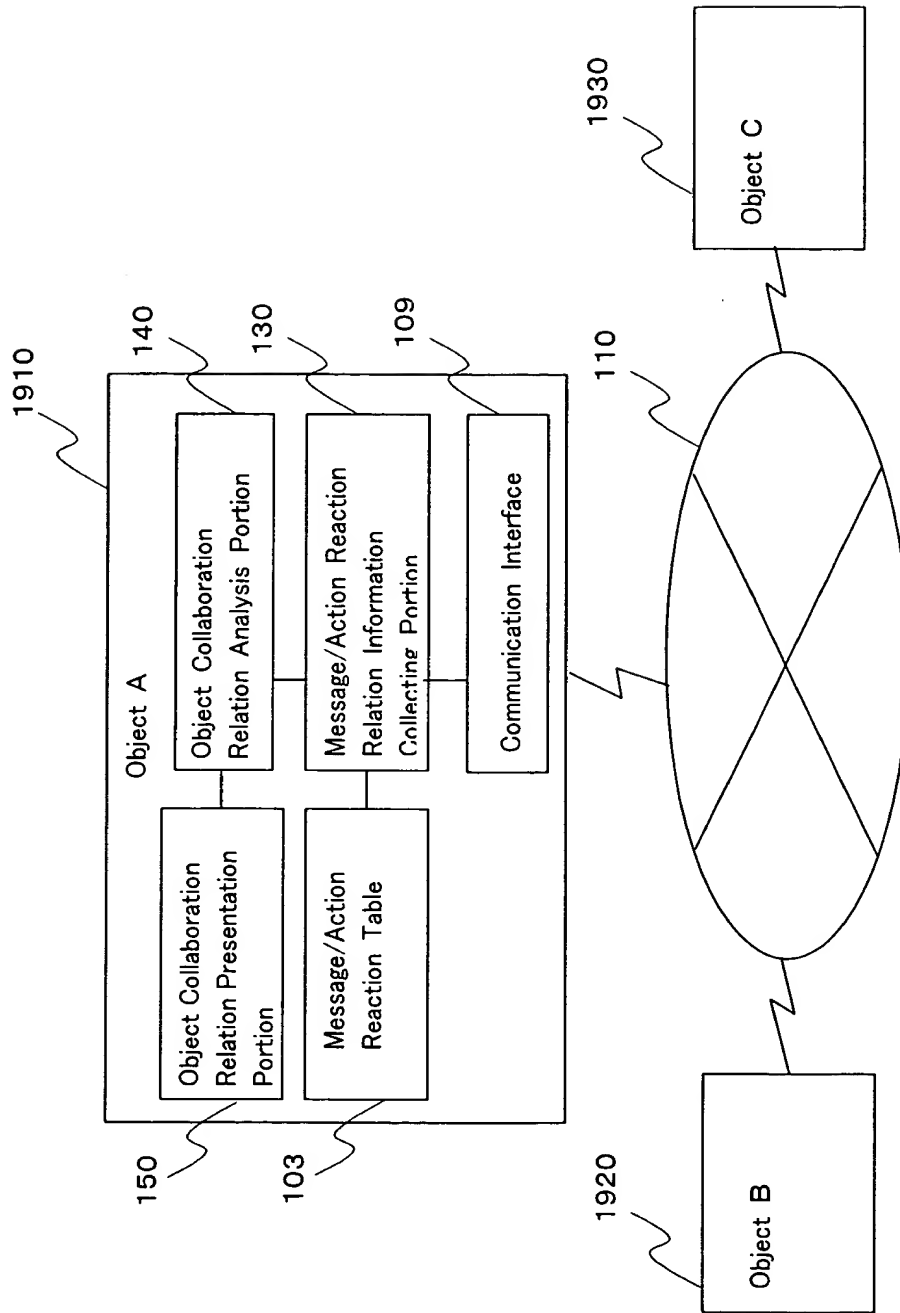


FIG. 19

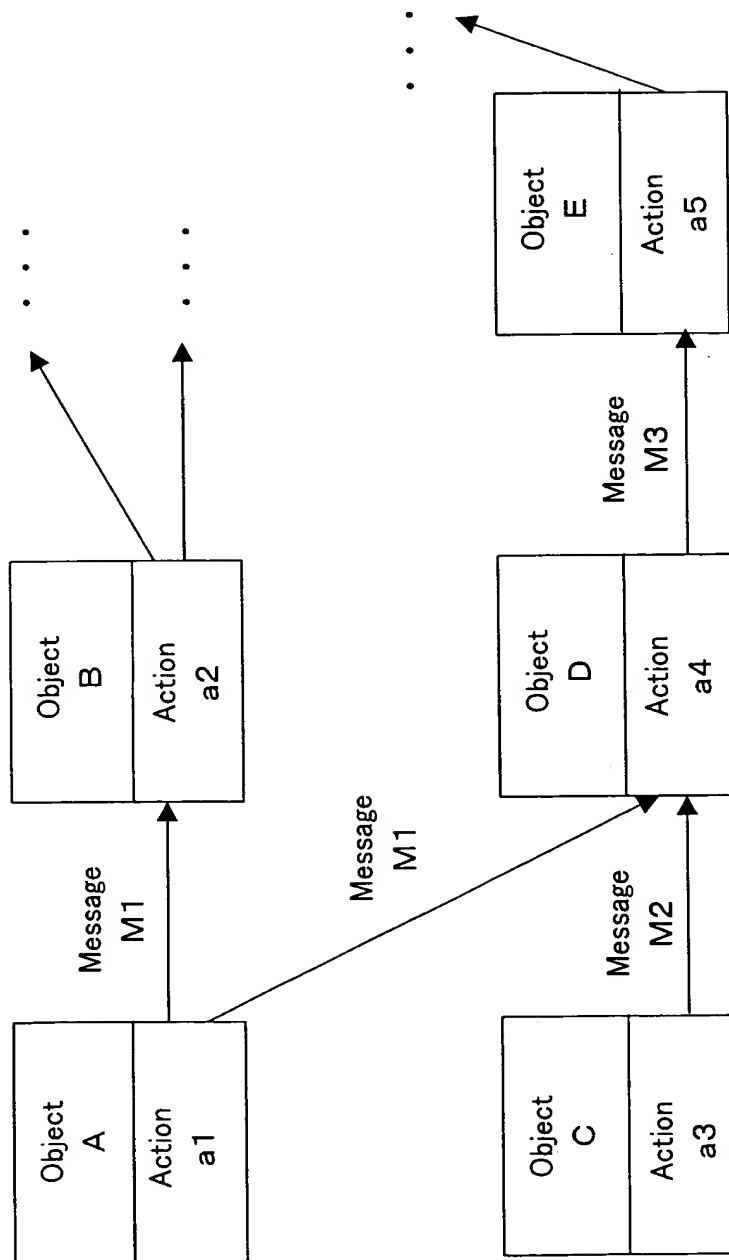


FIG . 20

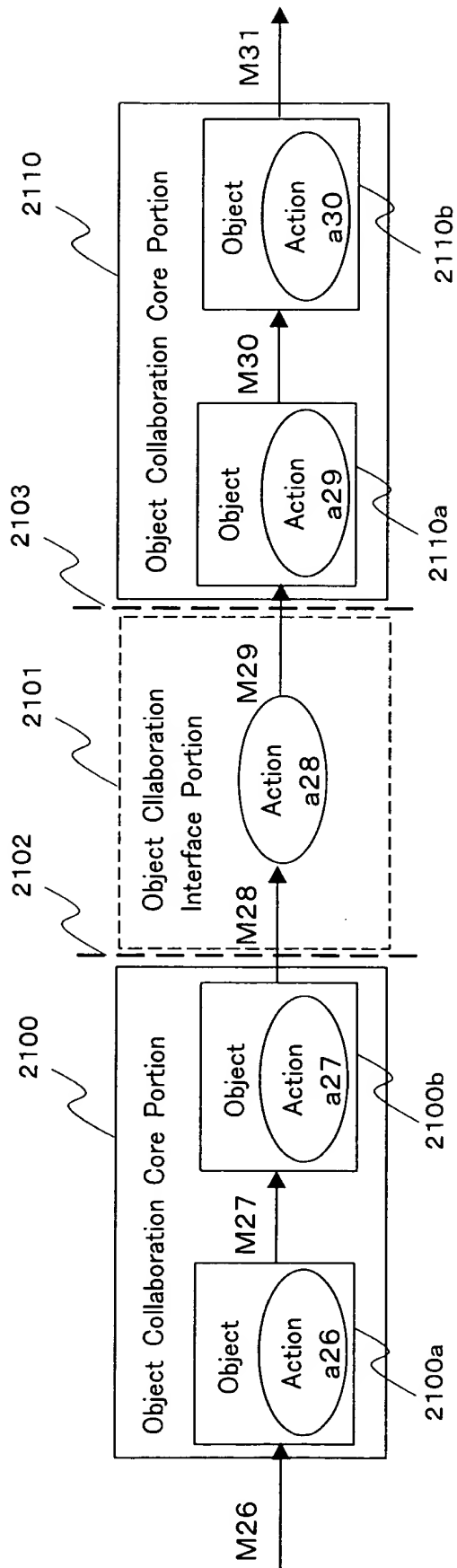


FIG. 21A

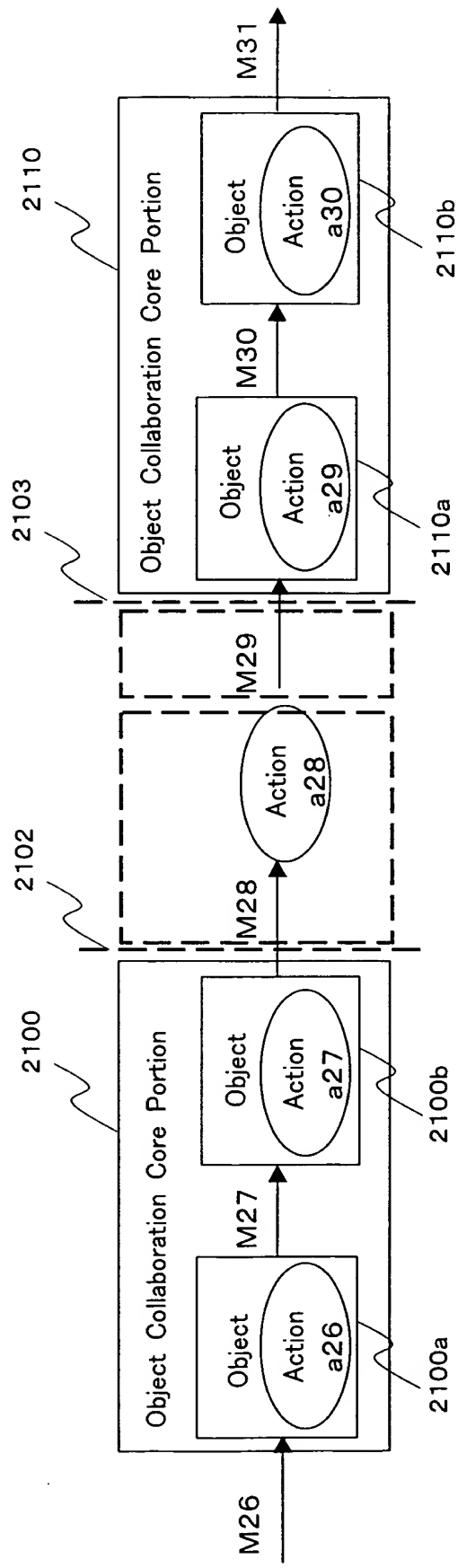


FIG. 21B

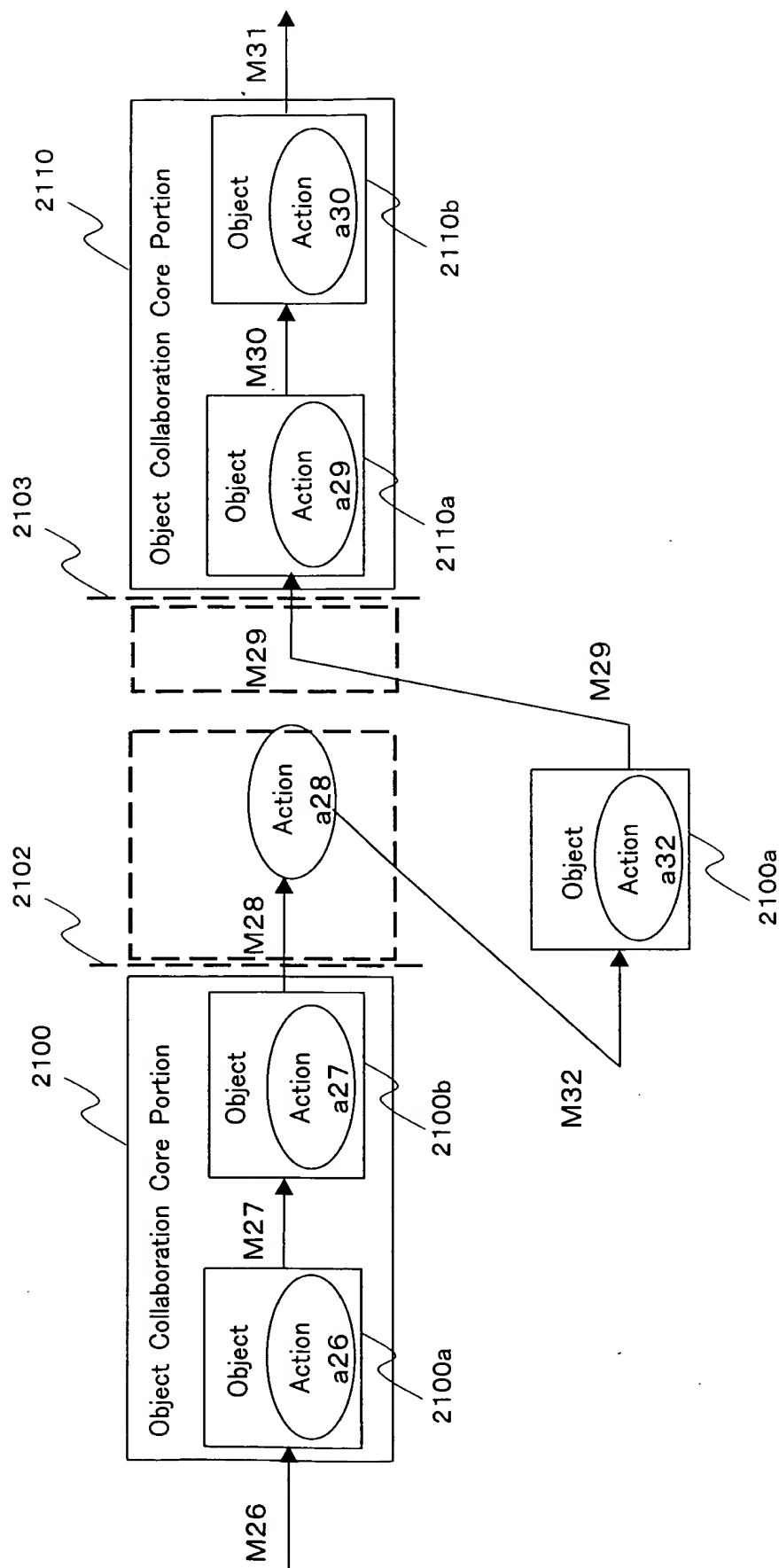


FIG . 22

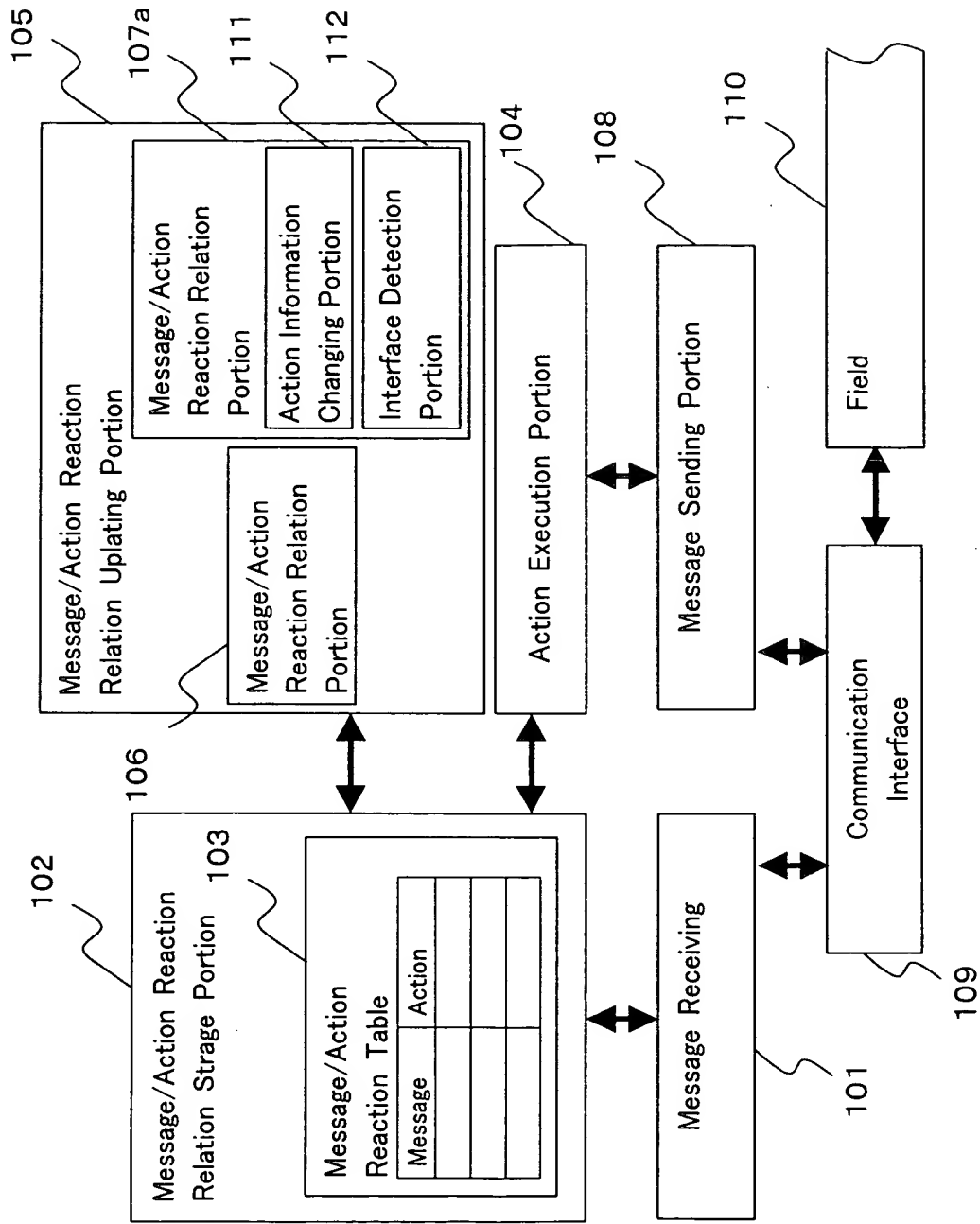


FIG. 23

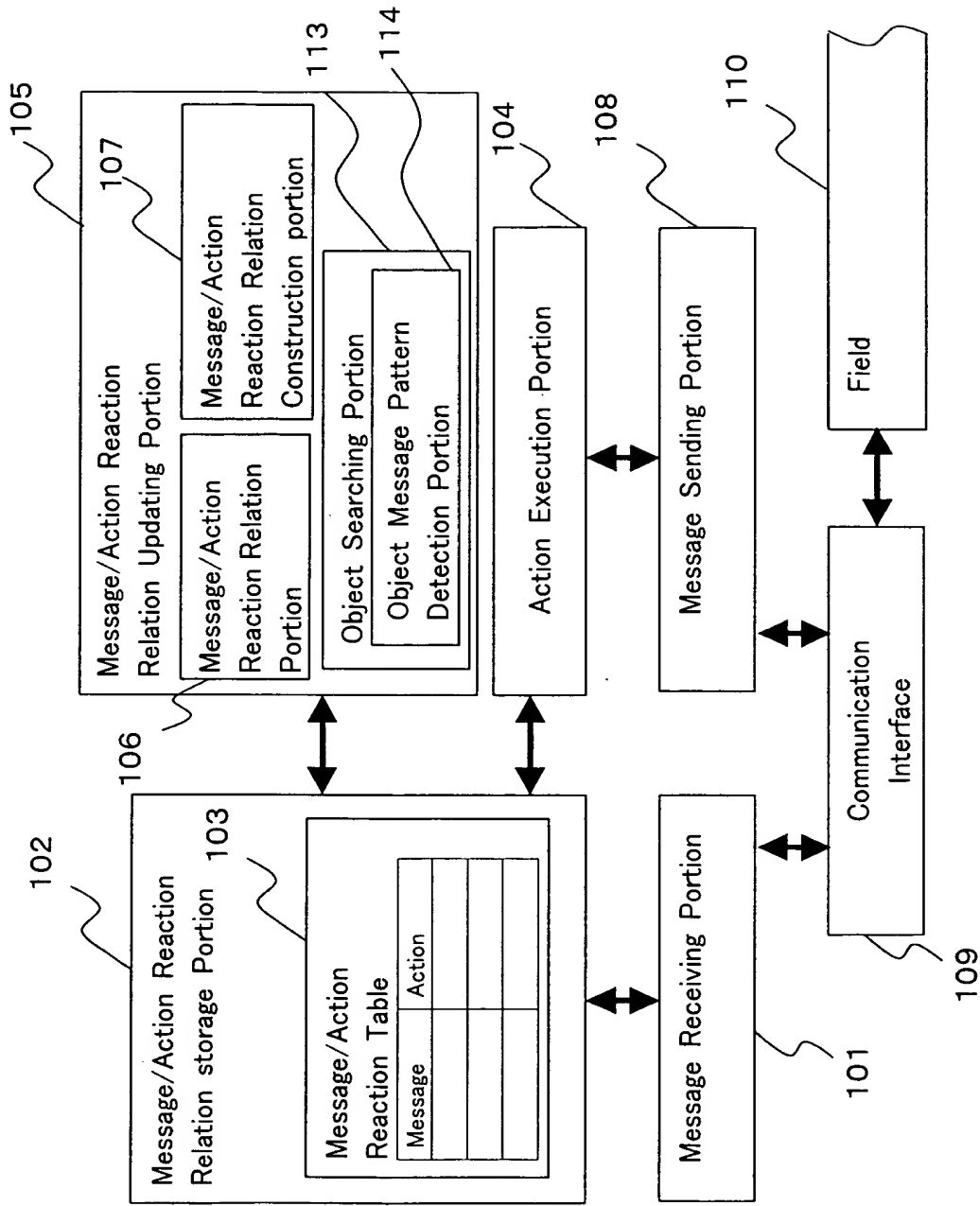


FIG. 24



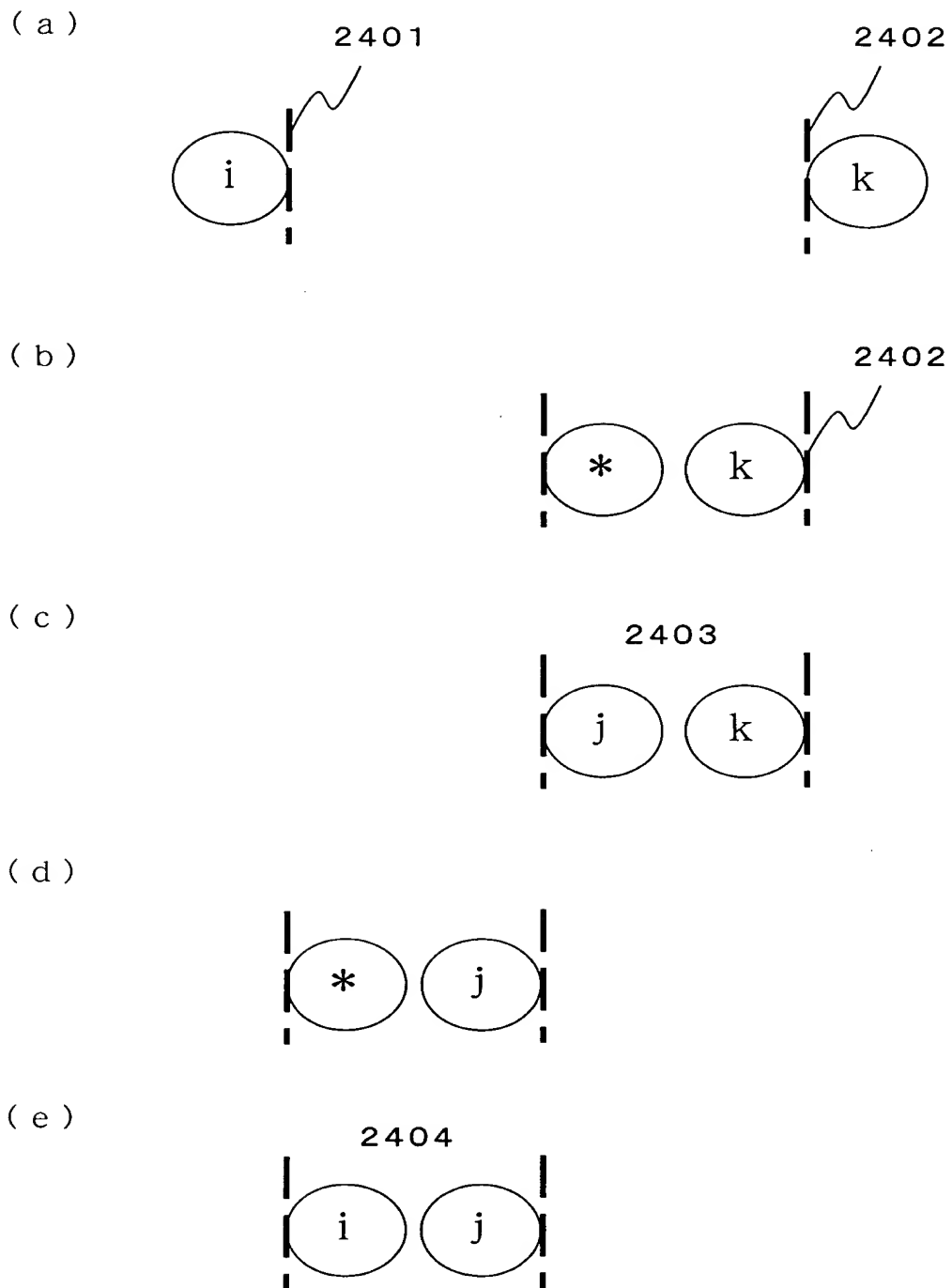


FIG . 25

```
<?xml version="1.0"?>
<!-- DTD Information -->
<!DOCTYPE SPEC [
    <!ELEMENT SPEC (MATRIX)*>
    <!ATTLIST SPEC NAME CDATA #IMPLIED>
    <!ELEMENT MATRIX (ENTRY)*>
    <!ATTLIST MATRIX NAME CDATA #IMPLIED>
    <!ELEMENT ENTRY (ITEM)*>
    <!ATTLIST ENTRY NAME CDATA #IMPLIED>
    <!ELEMENT ITEM (#PCDATA)>
    <!ATTLIST ITEM NAME CDATA #REQUIRED>
]>
```

FIG . 26

```
<?xml version="1.0"?>
<!-- Matrix Data -->
<!-- Matrix Data -->
<SPEC>
  <MATRIX NAME="FmtTranslate">
    <ENTRY>
      <ITEM NAME="Action"> "request" </ITEM>
      <ITEM NAME="Sender"> ui serv </ITEM>
      <ITEM NAME="RequestID"> dummy1 </ITEM>
      <ITEM NAME="OriginalMessageType">「i」</ITEM>
      <ITEM NAME="TargetMessageType">「k」</ITEM>
      <ITEM NAME="MessageKey">http://mach64:8888/
selsrv/ui.phx@936244885600</ITEM>
    </ENTRY>
  </MATRIX>
</SPEC>
```

FIG . 27

```
<?xml version="1.0"?>
<!-- Matrix Data -->
<SPEC>
  <MATRIX NAME="FmtTranslate">
    <ENTRY>
      <ITEM NAME="Action"> "in-request" </ITEM>
      <ITEM NAME="Sender">http://mach64:8888/sels
rv/imagearbiter.phx</ITEM>
      <ITEM NAME="RequestID">dumy1</ITEM>
      <ITEM NAME="OriginalMessageType">*</ITEM>
      <ITEM NAME="TargetMessageType">「k」</ITEM>
      <ITEM NAME="MessageKey">http://mach64:8888/
selsrv/ui.phx@936244885600</ITEM>
      <ITEM NAME="PathHistory"></ITEM>
    </ENTRY>
  </MATRIX>
</SPEC>
```

FIG . 28

```

<?xml version="1.0"?>
<!-- Matrix Data -->
<SPEC>
  <MATRIX NAME="FmtTranslate">
    <ENTRY>
      <ITEM NAME="Action"> "bid" </ITEM>
      <ITEM NAME="Sender">http://mach64:8888/selsrv
/「j」2「k」.phx</ITEM>
      <ITEM NAME="RequestID">dumy1</ITEM>
      <ITEM NAME="OriginalMessageType">「J」</ITEM>
      <ITEM NAME="TargetMessageType">「k」</ITEM>
      <ITEM NAME="MessageKey">http://mach64:8888/s
elsrv/ui.phx@936244885600</ITEM>
      <ITEM NAME="PathHistory">http://mach64:8888/s
elsrv/「j」2「k」.phx@「k」,</ITEM>
    </ENTRY>
  </MATRIX>
</SPEC>

```

FIG . 29

```
<?xml version="1.0"?>
<!-- Matrix Data -->
<SPEC>
  <MATRIX NAME="FmtTranslate">
    <ENTRY>
      <ITEM NAME="Action"> "in-request" </ITEM>
      <ITEM NAME="Sender">http://mach64:8888/selsr
v/imagearbiter.phx</ITEM>
      <ITEM NAME="RequestID">dumy1</ITEM>
      <ITEM NAME="OriginalMessageType">*</ITEM>
      <ITEM NAME="TargetMessageType">「J」</ITEM>
      <ITEM NAME="MessageKey">http://mach64:8888/
selsrv/ui.phx@936244885600</ITEM>
      <ITEM NAME="PathHistory">http://mach64:8888/
selsrv/「j」2「k」.phx@「k」.</ITEM>
    </ENTRY>
  </MATRIX>
</SPEC>
```

FIG . 30

```

<?xml version="1.0"?>
<!-- Matrix Data -->
<SPEC>
  <MATRIX NAME="FmtTranslate">
    <ENTRY>
      <ITEM NAME="Action"> "bid" </ITEM>
      <ITEM NAME="Sender">http://mach64:8888/selsr
v/win2「j」.phx</ITEM>
      <ITEM NAME="RequestID">dumy1</ITEM>
      <ITEM NAME="OriginalMessageType">*</ITEM>
      <ITEM NAME="TargetMessageType">「J」</ITEM>
      <ITEM NAME="MessageKey">http://mach64:8888/
selsrv/ui.phx@936244885600</ITEM>
      <ITEM NAME="PathHistory">http://mach64:8888/
selsrv/win2「j」.phx@「J」,http://mach64:8888/selsrv/「j」2
「k」.phx@「k」.</ITEM>
    </ENTRY>
  </MATRIX>
</SPEC>

```

FIG . 31

```

<?xml version="1.0"?>
<!-- Matrix Data -->
<SPEC>
  <MATRIX NAME="FmtTranslate">
    <ENTRY>
      <ITEM NAME="Action"> "in-serve" </ITEM>
      <ITEM NAME="Sender">http://mach64:8888/selsrv
/imagearbiter.phx</ITEM>
      <ITEM NAME="RequestID">dumy1</ITEM>
      <ITEM NAME="Contract">http://mach64:8888/sels
rv/win2「j」.phx</ITEM>
      <ITEM NAME="OriginalMessageType">「i」</ITEM>
      <ITEM NAME="TargetMessageType">「J」</ITEM>
      <ITEM NAME="MessageKey">http://mach64:8888/
selsrv/ui.phx@936244885600</ITEM>
      <ITEM NAME="PathHistory">http://mach64:8888/s
elsrv/win2「j」.phx@「J」,http://mach64:8888/selsrv/「j」2
「k」.phx@「k」,</ITEM>
    </ENTRY>
  </MATRIX>
</SPEC>

```

FIG . 32



```
<?xml version="1.0"?>
<!-- Matrix Data -->
<SPEC>
  <MATRIX NAME="FmtTranslate">
    <ENTRY>
      <ITEM NAME="Action"> "in-inform" </ITEM>
      <ITEM NAME="Sender">http://mach64:8888/selsr
v/win2「j」.phx</ITEM>
      <ITEM NAME="RequestID">dumy1</ITEM>
      <ITEM NAME="OriginalMessageType">「i」</ITEM>
      <ITEM NAME="TargetMessageType">「J」</ITEM>
      <ITEM NAME="MessageKey">http://mach64:8888/
selsrv/win2「j」.phx@936244893351</ITEM>
      <ITEM NAME="PathHistory">http://mach64:8888/
selsrv/「j」2「k」.phx@「k」,</ITEM>
    </ENTRY>
  </MATRIX>
</SPEC>
```

*FIG . 33*

```

<?xml version="1.0"?>
<!-- Matrix Data -->
<SPEC>
  <MATRIX NAME="FmtTranslate">
    <ENTRY>
      <ITEM NAME="Action"> "in-serve" </ITEM>
      <ITEM NAME="Sender">http://mach64:8888/selsrv/
imagearbiter.phx</ITEM>
      <ITEM NAME="RequestID">dumy1</ITEM>
      <ITEM NAME="Contract">http://mach64:8888/selsr
v/「j」2「k」.phx</ITEM>
      <ITEM NAME="OriginalMessageType">「J」</ITEM>
      <ITEM NAME="TargetMessageType">「k」</ITEM>
      <ITEM NAME="MessageKey">http://mach64:8888/s
elsrv/win2「j」.phx@936244893351</ITEM>
      <ITEM NAME="PathHistory">http://mach64:8888/se
lsrv/「j」2「k」.phx@「k」,</ITEM>
    </ENTRY>
  </MATRIX>
</SPEC>

```

FIG . 34

```

<?xml version="1.0"?>
<!-- Matrix Data -->
<SPEC>
  <MATRIX NAME="FmtTranslate">
    <ENTRY>
      <ITEM NAME="Action"> "in-inform" </ITEM>
      <ITEM NAME="Sender">http://mach64:8888/selsrv
/jj2[k].phx</ITEM>
      <ITEM NAME="RequestID">dumy1</ITEM>
      <ITEM NAME="OriginalMessageType">「J」</ITEM>
      <ITEM NAME="TargetMessageType">「k」</ITEM>
      <ITEM NAME="MessageKey"> http://mach64:888
8/selsrv/「j」2「k」.phx@912761245632</ITEM>
      <ITEM NAME="PathHistory"></ITEM>
    </ENTRY>
  </MATRIX>
</SPEC>

```

FIG . 35

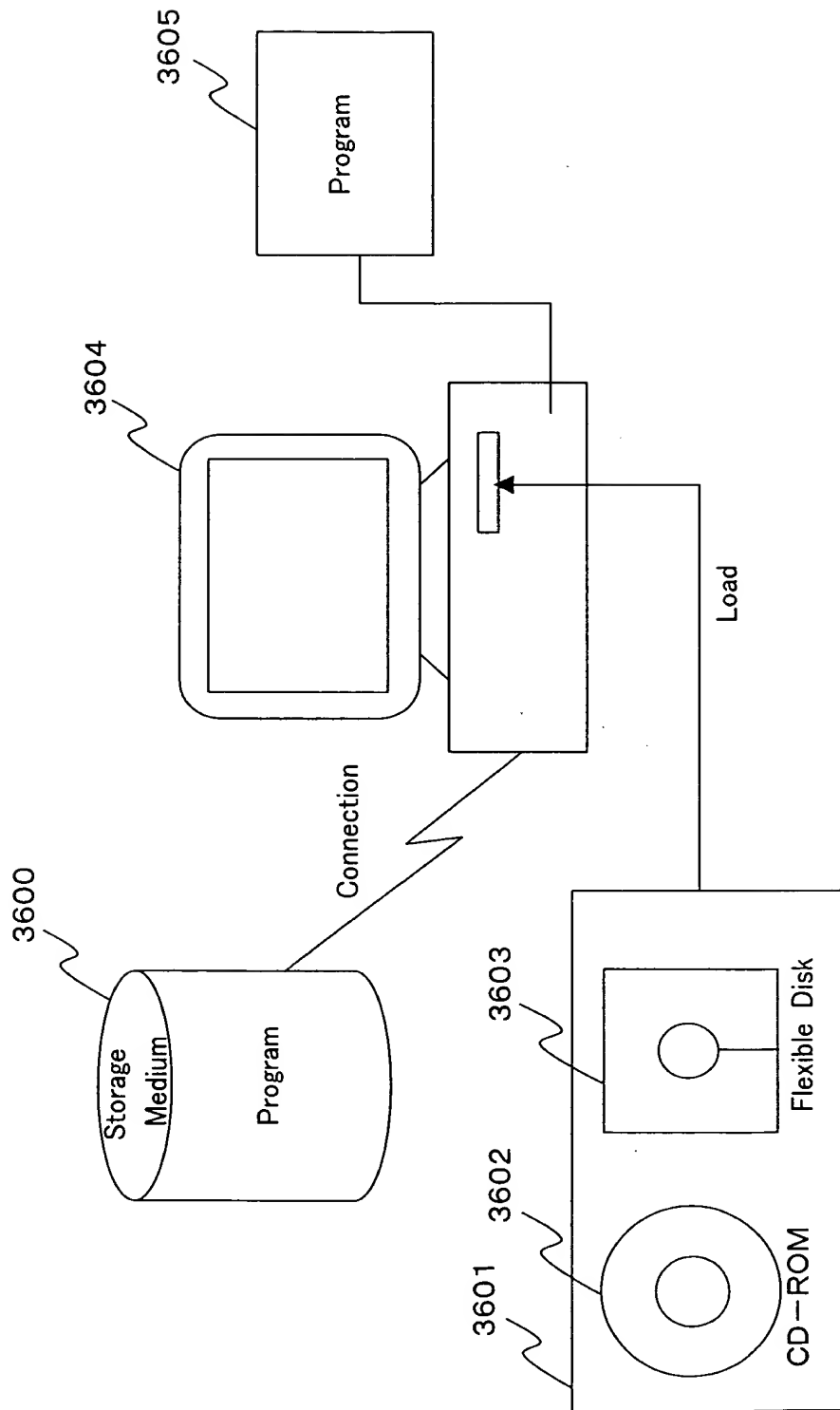


FIG . 36

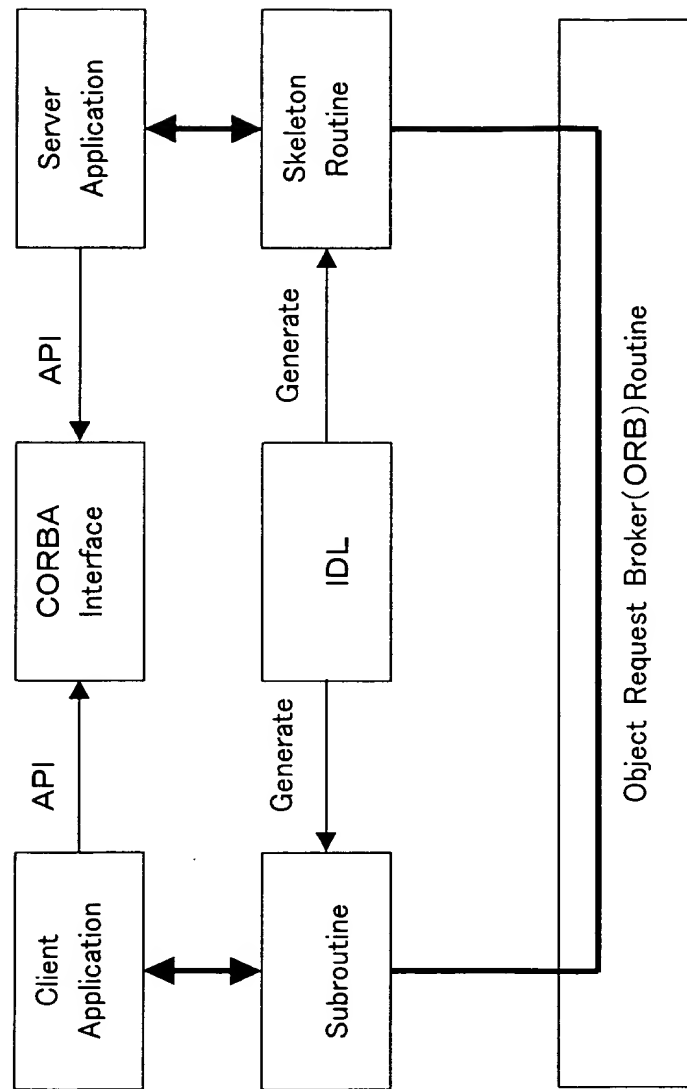


FIG . 37